

CLAIMS

WHAT IS CLAIMED IS:

1. A connector used in a kite, comprising:

2 two or more legs with a first end and a second end; and

 a junction portion coupled adjacent said first end of said two or more legs,

4 forming a saddle portion therebetween.

2. The connector of Claim 1, further comprising an orifice in said second end of each of

2 said two or more legs.

3. The connector of Claim 2, wherein said orifice is configured to couple to a rod.

4. The connector of Claim 3, wherein said saddle portion is configured to engage an

2 airfoil portion of a kite.

5. The connector of Claim 4, wherein an edge of said airfoil portion of said kite forming

2 an aperture there through is engaged within said saddle portion.

6. The connector of Claim 4, wherein said rod exerts a force on said connector opposing a

2 force exerted by said airfoil portion.

7. The connector of said Claim 5, wherein said two or more legs are flexibly coupled to
2 said junction portion at an angle and an orientation that varies with said forces exerted upon it
by said airfoil and said rods.

8. The connector of Claim 1, wherein said connector is flexible.

9. The connector of Claim 1, wherein said connector is symmetrical about a central axis.

10. The connector of Claim 1, said connector is used in the construction of a flying toy.

11. A kite, comprising:

2 a connector including two or more legs and a junction portion configured to form a
saddle portion; and

4 two or more rods that couple to said two or more legs of said connector; and

an airfoil portion comprising one or more edges that define at least one aperture;

6 wherein least one of said edges engages said saddle portion.

12. The kite of Claim 11, further comprising a pole coupled to said airfoil portion at a side
2 opposite the side engaged to said saddle portion of said connector.

13. The kite of Claim 11, wherein said rods and said airfoil portion exert opposing forces
2 on said connector.

14. The connector of said Claim 13, wherein said two or more legs are coupled to said
2 junction portion at an angle and an orientation, said connector being flexible such that said
angle and said orientation varies with said forces exerted upon it by said airfoil and said rods.

15. A kite including a fin-like structure, said fin like structure comprising:

2 an airfoil portion having one or more edges that define an aperture;

a connector including two or more legs coupled by a junction portion, thereby forming

4 a saddle region; and

a rod coupled to each of said two or more legs;

6 wherein one or more of said edges are engaged with said saddle portion, said airfoil
portion and said rods exerting opposing forces on said connector.

16. The kite of Claim 15, further comprising a pole coupled to said airfoil portion at a side
2 opposite a side said one or more edges.

17. A method of assembling a kite, comprising:

2 inserting a connector through an aperture defined in an airfoil portion of the kite such
that said airfoil portion engages a saddle portion of said connector;

4 connecting said connector to at least one rod; and

orienting said airfoil portion to exert a force on said connector, that is opposed by a

6 force exerted by said rod and said connector.